

SEQUENCE LISTING

<110> Urbaniak, Stanislaw J.
Barker, Robert, N.

<120> ALLO- AND AUTO-REACTIVE T-CELL EPITOPES

<130> P097

<140> 09/857,097

<141> 1999-12-01

<150> 9826378.3

<151> 1998-12-01

<160> 152

<170> PatentIn Ver. 2.1

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<212> PRT

<213> Homo sapiens

<220>

<223> Residues 2-16

<400> 1

Ser	Ser	Lys	Tyr	Pro	Arg	Ser	Val	Arg	Arg	Cys	Leu	Pro	Leu	Trp
1				5				10					15	

<210> 2

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<213> Homo sapiens

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<223> Residues 12-26

<400> 2

Cys	Leu	Pro	Leu	Trp	Ala	Leu	Thr	Leu	Glu	Ala	Ala	Leu	Ile	Leu
1				5				10					15	

<210> 3

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<213> RhCE (R2 CE)

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<223> Residue 22-36

<400> 3

Ala	Ala	Leu	Ile	Leu	Leu	Phe	Tyr	Phe	Phe	Thr	His	Tyr	Asp	Ala
1				5				10					15	

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<400> 4
 Thr His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala
 1 5 10 15

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<400> 5
 Lys Gly Leu Val Ala Ser Tyr Gln Val Gly Gln Asp Leu Thr Val
 1 5 10 15

<210> 6
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<220>
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<400> 6
 Gln Asp Leu Thr Val Met Ala Ala Leu Gly Leu Gly Phe Leu Thr
 1 5 10 15

<210> 7
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<400> 7
 Leu Gly Phe Leu Thr Ser Asn Phe Arg Arg His Ser Trp Ser Ser
 1 5 10 15

<210> 8
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<220>

<223> Residue 72-86

<400> 8

His	Ser	Trp	Ser	Ser	Val	Ala	Phe	Asn	Leu	Phe	Met	Leu	Ala	Leu
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<210> 9

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<223> Residue 82-96

<400> 9

Phe	Met	Leu	Ala	Leu	Gly	Val	Gln	Trp	Ala	Ile	Leu	Leu	Asp	Gly
1				5					10					15

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<223> Residue 92-106

<400> 10

Ile	Leu	Leu	Asp	Gly	Phe	Leu	Ser	Gln	Phe	Pro	Pro	Gly	Lys	Val
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<220>

<223> Residue 102-116

<400> 11

Pro	Pro	Gly	Lys	Val	Val	Ile	Thr	Leu	Phe	Ser	Ile	Arg	Leu	Ala
1				5					10					15

<210> 12

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<212> PRT

<213> RhCE (R2 CE)

<220>

<223> Residue 112-126

<400> 12

Ser	Ile	Arg	Leu	Ala	Thr	Met	Ser	Ala	Met	Ser	Val	Leu	Ile	Ser
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1

5

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<210> 13

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<220>

<223> Residue 122-136

<400> 13

Ser Val Leu Ile Ser Ala Gly Ala Val Leu Gly Lys Val Asn Leu

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<210> 14

<211> 15

<212> PRT

<213> RhCE (R2 CE)

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<223> Residue 132-146

<400> 14

Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu Val Glu

1

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<210> 15

<211> 15

<212> PRT

<213> RhCE (R2 CE)

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<223> Residue 142-156

<400> 15

Met Val Leu Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val

1

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10

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<210> 16

<211> 15

<212> PRT

<213> RhCE (R2 CE)

<220>

<223> Residue 152-166

<400> 16

Thr Leu Arg Met Val Ile Ser Asn Ile Phe Asn Thr Asp Tyr His

1

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<210> 17

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<400> 17
 Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
 1 5 10 15

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<400> 18
 Phe Tyr Val Phe Ala Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys
 1 5 10 15

<210> 19
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<220>
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<400> 19
 Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro Lys Gly Thr Glu
 1 5 10 15

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<400> 20
 Pro Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser
 1 5 10 15

<210> 21
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<400> 21

Ala Thr Ile Pro Ser Leu Ser Ala Met Leu Gly Ala Leu Phe Leu
1 5 10 15

<210> 22

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<223> Residue 212-226

<400> 22

Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn Ser Pro
1 5 10 15

<210> 23

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<400> 23

Ser Val Asn Ser Pro Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn
1 5 10 15

<210> 24

<211> 15

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<213> RhCE (R2 CE)

<220>

<223> Residue 232-246

<400> 24

Ile Gln Arg Lys Asn Ala Met Phe Asn Thr Tyr Tyr Ala Leu Ala
1 5 10 15

<210> 25

<211> 15

<212> PRT

<213> RhCE (R2 CE)

<220>

<223> Residue 242-256

<400> 25

Tyr Tyr Ala Leu Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
1 5 10 15

<210> 26
 <211> 15
 <212> PRT
 <213> RhCE (R2 CE)

<220>
 <223> Residue 252-266

<400> 26
 Ala Ile Ser Gly Ser Ser Leu Ala His Pro Gln Arg Lys Ile Ser
 1 5 10 15

<210> 27
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 <212> PRT
 <213> RhCE (R2 CE)

<220>
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<400> 27
 Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser Ala Val Leu Ala
 1 5 10 15

<210> 28
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 <213> RhCE (R2 CE)

<220>
 <223> Residue 272-286

<400> 28
 Ser Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His
 1 5 10 15

<210> 29
 <211> 15
 <212> PRT
 <213> RhCE (R2 CE)

<220>
 <223> Residue 282-296

<400> 29
 Gly Thr Ser Cys His Leu Ile Pro Ser Pro Trp Leu Ala Met Val
 1 5 10 15

<210> 30
 <211> 15
 <212> PRT
 <213> RhCE (R2 CE)

<220>

<223> Residue 292-306

<400> 30

Trp	Leu	Ala	Met	Val	Leu	Gly	Leu	Val	Ala	Gly	Leu	Ile	Ser	Ile
1				5					10					15

<210> 31

<211> 15

<212> PRT

<213> RhCE (R2 CE)

<220>

<223> Residue 302-316

<400> 31

Gly	Leu	Ile	Ser	Ile	Gly	Gly	Ala	Lys	Cys	Leu	Pro	Val	Cys	Cys
1				5					10					15

<210> 32

<211> 15

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<220>

<223> Residue 312-326

<400> 32

Leu	Pro	Val	Cys	Cys	Asn	Arg	Val	Leu	Gly	Ile	His	His	Ile	Ser
1				5					10					15

<210> 33

<211> 15

<212> PRT

<213> RhCE (R2 CE)

<220>

<223> Residue 322-336

<400> 33

Ile	His	His	Ile	Ser	Val	Met	His	Ser	Ile	Phe	Ser	Leu	Leu	Gly
1				5					10					15

<210> 34

<211> 15

<212> PRT

<213> RhCE (R2 CE)

<220>

<223> Residue 332-346

<400> 34

Phe Ser Leu Leu Gly Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu
 1 5 10 15

<210> 35
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 <213> RhCE (R2 CE)

<220>
 <223> Residue 342-356

<400> 35
 Thr Tyr Ile Val Leu Leu Val Leu His Thr Val Trp Asn Gly Asn
 1 5 10 15

<210> 36
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 <213> RhCE (R2 CE)

<220>
 <223> Residue 352-366

<400> 36
 Val Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser
 1 5 10 15

<210> 37
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 <213> RhCE (R2 CE)

<220>
 <223> Residue 362-376

<400> 37
 Gln Val Leu Leu Ser Ile Gly Glu Leu Ser Leu Ala Ile Val Ile
 1 5 10 15

<210> 38
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 <213> RhCE (R2 CE)

<220>
 <223> Residue 372-386

<400> 38
 Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr Gly Leu
 1 5 10 15

<210> 39

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 <213> RhCE (R2 CE)

<220>
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<400> 39
 Leu Leu Thr Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro
 1 5 10 15

<210> 40
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<220>
 <223> Residue 392-406

<400> 40
 Ile Trp Lys Ala Pro His Val Ala Lys Tyr Phe Asp Asp Gln Val
 1 5 10 15

<210> 41
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 <213> RhCE (R2 cE)

<220>
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<400> 41
 Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
 1 5 10 15

<210> 42
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 <213> RhCE (R2 cE)

<220>
 <223> Residue 403-417

<400> 42
 Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly Phe
 1 5 10 15

<210> 43
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 <212> PRT
 <213> RhCE (R1 Ce)

<220>

<223> Residue 2-16

<400> 43

Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Cys
 1 5 10 15

<210> 44

<211> 15

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<213> RhCE (R1 Ce)

<220>

<223> Residue 12-26

<400> 44

Cys Leu Pro Leu Cys Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu
 1 5 10 15

<210> 45

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<220>

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<400> 45

Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn Ser Ala
 1 5 10 15

<210> 46

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<220>

<223> Residue 222-236

<400> 46

Ser Val Asn Ser Ala Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn
 1 5 10 15

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<212> PRT

<213> RhD

<220>

<223> Residue 52-66

<400> 47

Gln Asp Leu Thr Val Met Ala Ala Ile Gly Leu Gly Phe Leu Thr
 1 5 10 15

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<400> 48
 Leu Gly Phe Leu Thr Ser Ser Phe Arg Arg His Ser Trp Ser Ser
 1 5 10 15

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 <213> RhD

<220>
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<400> 49
 Ile Leu Leu Asp Gly Phe Leu Ser Gln Phe Pro Ser Gly Lys Val
 1 5 10 15

<210> 50
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 <212> PRT
 <213> RhD

<220>
 <223> Residue 102-116

<400> 50
 Pro Ser Gly Lys Val Val Ile Thr Leu Phe Ser Ile Arg Leu Ala
 1 5 10 15

<210> 51
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 112-126

<400> 51
 Ser Ile Arg Leu Ala Thr Met Ser Ala Leu Ser Val Leu Ile Ser
 1 5 10 15

<210> 52
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<213> RhD

<220>

<223> Residue 122-136

<400> 52

Ser	Val	Leu	Ile	Ser	Val	Asp	Ala	Val	Leu	Gly	Lys	Val	Asn	Leu
1				5					10					15

<210> 53

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<212> PRT

<213> RhD

<220>

<223> Residue 142-156

<400> 53

Met	Val	Leu	Val	Glu	Val	Thr	Ala	Leu	Gly	Asn	Leu	Arg	Met	Val
1				5					10					15

<210> 54

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<213> RhD

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<400> 54

Asn	Leu	Arg	Met	Val	Ile	Ser	Asn	Ile	Phe	Asn	Thr	Asp	Tyr	His
1				5					10					15

<210> 55

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<212> PRT

<213> RhD

<220>

<223> Residue 162-176

<400> 55

Asn	Thr	Asp	Tyr	His	Met	Asn	Met	Met	His	Ile	Tyr	Val	Phe	Ala
1				5					10					15

<210> 56

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<212> PRT

<213> RhD

<220>

<223> Residue 172-186

<400> 56

Ile	Tyr	Val	Phe	Ala	Ala	Tyr	Phe	Gly	Leu	Ser	Val	Ala	Trp	Cys
1				5					10					15

<210> 57

<211> 15

<212> PRT

<213> RhD

<220>

<223> Residue 182-196

<400> 57

Ser	Val	Ala	Trp	Cys	Leu	Pro	Lys	Pro	Leu	Pro	Glu	Gly	Thr	Glu
1				5					10					15

<210> 58

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<212> PRT

<213> RhD

<220>

<223> Residue 192-206

<400> 58

Pro	Glu	Gly	Thr	Glu	Asp	Lys	Asp	Gln	Thr	Ala	Thr	Ile	Pro	Ser
1				5					10					15

<210> 59

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<212> PRT

<213> RhD

<220>

<223> Residue 212-226

<400> 59

Gly	Ala	Leu	Phe	Leu	Trp	Ile	Phe	Trp	Pro	Ser	Phe	Asn	Ser	Ala
1				5					10					15

<210> 60

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<212> PRT

<213> RhD

<220>

<223> Residue 222-236

<400> 60

Ser	Phe	Asn	Ser	Ala	Leu	Leu	Arg	Ser	Pro	Ile	Glu	Arg	Lys	Asn
1				5					10					15

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 <213> RhD

<220>
 <223> Residue 232-246

<400> 61
 Ile Glu Arg Lys Asn Ala Val Phe Asn Thr Tyr Tyr Ala Val Ala
 1 5 10 15

<210> 62
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 242-256

<400> 62
 Tyr Tyr Ala Val Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
 1 5 10 15

<210> 63
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 252-266

<400> 63
 Ala Ile Ser Gly Ser Ser Leu Ala His Pro Gln Gly Lys Ile Ser
 1 5 10 15

<210> 64
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 262-276

<400> 64
 Gln Gly Lys Ile Ser Lys Thr Tyr Val His Ser Ala Val Leu Ala
 1 5 10 15

<210> 65
 <211> 15
 <212> PRT
 <213> RhD

<220>

<223> Residue 292-306

<400> 65

Trp	Leu	Ala	Met	Val	Leu	Gly	Leu	Val	Ala	Gly	Leu	Ile	Ser	Val
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<210> 66

<211> 15

<212> PRT

<213> RhD

<220>

<223> Residue 302-316

<400> 66

Gly	Leu	Ile	Ser	Val	Gly	Gly	Ala	Lys	Tyr	Leu	Pro	Gly	Cys	Cys
1					5				10					15

<210> 67

<211> 15

<212> PRT

<213> RhD

<220>

<223> Residue 312-326

<400> 67

Leu	Pro	Gly	Cys	Cys	Asn	Arg	Val	Leu	Gly	Ile	Pro	His	Ser	Ser
1					5				10					15

<210> 68

<211> 15

<212> PRT

<213> RhD

<220>

<223> Residue 322-336

<400> 68

Ile	Pro	His	Ser	Ser	Ile	Met	Gly	Tyr	Asn	Phe	Ser	Leu	Leu	Gly
1					5				10					15

<210> 69

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<212> PRT

<213> RhD

<220>

<223> Residue 332-346

<400> 69

Phe	Ser	Leu	Leu	Gly	Leu	Leu	Gly	Glu	Ile	Ile	Tyr	Ile	Val	Leu
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<210> 70
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<220>
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<400> 70
 Ile Tyr Ile Val Leu Leu Val Leu Asp Thr Val Gly Ala Gly Asn
 1 5 10 15

<210> 71
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 352-366

<400> 71
 Val Gly Ala Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser
 1 5 10 15

<210> 72
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 392-406

<400> 72
 Ile Trp Lys Ala Pro His Glu Ala Lys Tyr Phe Asp Asp Gln Val
 1 5 10 15

<210> 73
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 <213> RhCE (R1 Ce)

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<400> 73
 Arg Ser Val Arg Arg Cys Leu Pro Leu Cys Ala Leu Thr Leu Glu
 1 5 10 15

<210> 74
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<212> PRT
 <213> RhCE (R1 Ce)

<220>
 <223> Residue 217-231

<400> 74
 Trp Met Phe Trp Pro Ser Val Asn Ser Ala Leu Leu Arg Ser Pro
 1 5 10 15

<210> 75
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 57-71

<400> 75
 Met Ala Ala Ile Gly Leu Gly Phe Leu Thr Ser Ser Phe Arg Arg
 1 5 10 15

<210> 76
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 67-81

<400> 76
 Ser Ser Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn Leu
 1 5 10 15

<210> 77
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 97-111

<400> 77
 Phe Leu Ser Gln Phe Pro Ser Gly Lys Val Val Ile Thr Leu Phe
 1 5 10 15

<210> 78
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 107-121

<400> 78

Val	Ile	Thr	Leu	Phe	Ser	Ile	Arg	Leu	Ala	Thr	Met	Ser	Ala	Leu
1				5					10					15

<210> 79

<211> 15

<212> PRT

<213> RhD

<220>

<223> Residue 117-131

<400> 79

Thr	Met	Ser	Ala	Leu	Ser	Val	Leu	Ile	Ser	Val	Asp	Ala	Val	Leu
1				5					10					15

<210> 80

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<212> PRT

<213> RhD

<220>

<223> Residue 127-141

<400> 80

Val	Asp	Ala	Val	Leu	Gly	Lys	Val	Asn	Leu	Ala	Gln	Leu	Val	Val
1				5					10					15

<210> 81

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<223> Residue 147-161

<400> 81

Val	Thr	Ala	Leu	Gly	Asn	Leu	Arg	Met	Val	Ile	Ser	Asn	Ile	Phe
1				5					10					15

<210> 82

<211> 15

<212> PRT

<213> RhD

<220>

<223> Residue 157-171

<400> 82

Ile	Ser	Asn	Ile	Phe	Asn	Thr	Asp	Tyr	His	Met	Asn	Met	Met	His
1				5					10					15

<210> 83
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 <212> PRT
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<220>
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<400> 83
 Met Asn Met Met His Ile Tyr Val Phe Ala Ala Tyr Phe Gly Leu
 1 5 10 15

<210> 84
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 177-191

<400> 84
 Ala Tyr Phe Gly Leu Ser Val Ala Trp Cys Leu Pro Lys Pro Leu
 1 5 10 15

<210> 85
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 187-201

<400> 85
 Leu Pro Lys Pro Leu Pro Glu Gly Thr Glu Asp Lys Asp Gln Thr
 1 5 10 15

<210> 86
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 197-211

<400> 86
 Asp Lys Asp Gln Thr Ala Thr Ile Pro Ser Leu Ser Ala Met Leu
 1 5 10 15

<210> 87
 <211> 15
 <212> PRT
 <213> RhD

<220>

<223> Residue 207-221

<400> 87

Leu	Ser	Ala	Met	Leu	Gly	Ala	Leu	Phe	Leu	Trp	Ile	Phe	Trp	Pro
1				5					10					15

<210> 88

<211> 15

<212> PRT

<213> RhD

<220>

<223> Residue 217-231

<400> 88

Trp	Ile	Phe	Trp	Pro	Ser	Phe	Asn	Ser	Ala	Leu	Leu	Arg	Ser	Pro
1				5					10					15

<210> 89

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<212> PRT

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<220>

<223> Residue 227-241

<400> 89

Leu	Leu	Arg	Ser	Pro	Ile	Glu	Arg	Lys	Asn	Ala	Val	Phe	Asn	Thr
1				5					10					15

<210> 90

<211> 15

<212> PRT

<213> RhD

<220>

<223> Residue 237-251

<400> 90

Ala	Val	Phe	Asn	Thr	Tyr	Tyr	Ala	Val	Ala	Val	Ser	Val	Val	Thr
1				5					10					15

<210> 91

<211> 15

<212> PRT

<213> RhD

<220>

<223> Residue 257-271

<400> 91

Ser Leu Ala His Pro Gln Gly Lys Ile Ser Lys Thr Tyr Val His
 1 5 10 15

<210> 92
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 267-281

<400> 92
 Lys Thr Tyr Val His Ser Ala Val Leu Ala Gly Gly Val Ala Val
 1 5 10 15

<210> 93
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 297-311

<400> 93
 Leu Gly Leu Val Ala Gly Leu Ile Ser Val Gly Gly Ala Lys Tyr
 1 5 10 15

<210> 94
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 307-321

<400> 94
 Gly Gly Ala Lys Tyr Leu Pro Gly Cys Cys Asn Arg Val Leu Gly
 1 5 10 15

<210> 95
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 317-331

<400> 95
 Asn Arg Val Leu Gly Ile Pro His Ser Ser Ile Met Gly Tyr Asn
 1 5 10 15

<210> 96

<211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 327-341

<400> 96
 Ile Met Gly Tyr Asn Phe Ser Leu Leu Gly Leu Leu Gly Glu Ile
 1 5 10 15

<210> 97
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 337-351

<400> 97
 Leu Leu Gly Glu Ile Ile Tyr Ile Val Leu Leu Val Leu Asp Thr
 1 5 10 15

<210> 98
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 347-361

<400> 98
 Leu Val Leu Asp Thr Val Gly Ala Gly Asn Gly Met Ile Gly Phe
 1 5 10 15

<210> 99
 <211> 15
 <212> PRT
 <213> RhD

<220>
 <223> Residue 387-401

<400> 99
 Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Glu Ala Lys Tyr
 1 5 10 15

<210> 100
 <211> 15
 <212> PRT
 <213> RhD

<220>

<223> Residue 397-411

<400> 100

His	Glu	Ala	Lys	Tyr	Phe	Asp	Asp	Gln	Val	Phe	Trp	Lys	Phe	Pro
1				5					10					15

<210> 101

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 1-15

<400> 101

Met	Arg	Phe	Thr	Phe	Pro	Leu	Met	Ala	Ile	Val	Leu	Glu	Ile	Ala
1				5					10					15

<210> 102

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 11-25

<400> 102

Val	Leu	Glu	Ile	Ala	Met	Ile	Val	Leu	Phe	Gly	Leu	Phe	Val	Glu
1				5					10					15

<210> 103

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 21-35

<400> 103

Gly	Leu	Phe	Val	Glu	Tyr	Glu	Thr	Asp	Gln	Thr	Val	Leu	Glu	Gln
1				5					10					15

<210> 104

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 31-45

<400> 104

Thr	Val	Leu	Glu	Gln	Leu	Asn	Ile	Thr	Lys	Pro	Thr	Asp	Met	Gly
1				5					10					15

<210> 105
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 41-55

<400> 105
 Pro Thr Asp Met Gly Ile Phe Phe Glu Leu Tyr Pro Leu Phe Gln
 1 5 10 15

<210> 106
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 51-65

<400> 106
 Tyr Pro Leu Phe Gln Asp Val His Val Met Ile Phe Val Gly Phe
 1 5 10 15

<210> 107
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 61-75

<400> 107
 Ile Phe Val Gly Phe Gly Phe Leu Met Thr Phe Leu Lys Lys Tyr
 1 5 10 15

<210> 108
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 71-85

<400> 108
 Phe Leu Lys Lys Tyr Gly Phe Ser Ser Val Gly Ile Asn Leu Leu
 1 5 10 15

<210> 109
 <211> 15
 <212> PRT

<213> Rh50 GP

<220>

<223> Residue 81-95

<400> 109

Gly	Ile	Asn	Leu	Leu	Val	Ala	Ala	Leu	Gly	Leu	Gln	Trp	Gly	Thr
1				5					10					15

<210> 110

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 91-105

<400> 110

Leu	Gln	Trp	Gly	Thr	Ile	Val	Gln	Gly	Ile	Leu	Gln	Ser	Gln	Gly
1				5					10					15

<210> 111

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 101-115

<400> 111

Leu	Gln	Ser	Gln	Gly	Gln	Lys	Phe	Asn	Ile	Gly	Ile	Lys	Asn	Met
1				5					10					15

<210> 112

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 111-125

<400> 112

Gly	Ile	Lys	Asn	Met	Ile	Asn	Ala	Asp	Phe	Ser	Ala	Ala	Thr	Val
1				5					10					15

<210> 113

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 121-135

<400> 113

Ser	Ala	Ala	Thr	Val	Leu	Ile	Ser	Phe	Gly	Ala	Val	Leu	Gly	Lys
1					5				10					15

<210> 114

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 131-145

<400> 114

Ala	Val	Leu	Gly	Lys	Thr	Ser	Pro	Thr	Gln	Met	Leu	Ile	Met	Thr
1					5				10					15

<210> 115

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 141-155

<400> 115

Met	Leu	Ile	Met	Thr	Ile	Leu	Glu	Ile	Val	Phe	Phe	Ala	His	Asn
1					5				10					15

<210> 116

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 151-165

<400> 116

Phe	Phe	Ala	His	Asn	Glu	Tyr	Leu	Val	Ser	Glu	Ile	Phe	Lys	Ala
1					5				10					15

<210> 117

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 161-175

<400> 117

Glu	Ile	Phe	Lys	Ala	Ser	Asp	Ile	Gly	Ala	Ser	Met	Thr	Ile	His
1					5				10					15

<210> 118
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 171-185

<400> 118
 Ser Met Thr Ile His Ala Phe Gly Ala Tyr Phe Gly Leu Ala Val
 1 5 10 15

<210> 119
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 181-195

<400> 119
 Phe Gly Leu Ala Val Ala Gly Ile Leu Tyr Arg Ser Gly Leu Arg
 1 5 10 15

<210> 120
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 191-205

<400> 120
 Arg Ser Gly Leu Arg Lys Gly His Glu Asn Glu Glu Ser Ala Tyr
 1 5 10 15

<210> 121
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 201-215

<400> 121
 Glu Glu Ser Ala Tyr Tyr Ser Asp Leu Phe Ala Met Ile Gly Thr
 1 5 10 15

<210> 122
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>

<223> Residue 211-225

<400> 122

Ala	Met	Ile	Gly	Thr	Leu	Phe	Leu	Trp	Met	Phe	Trp	Pro	Ser	Phe
1					5				10					15

<210> 123

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 221-235

<400> 123

Phe	Trp	Pro	Ser	Phe	Asn	Ser	Ala	Ile	Ala	Glu	Pro	Gly	Asp	Lys
1				5					10					15

<210> 124

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 231-245

<400> 124

Glu	Pro	Gly	Asp	Lys	Gln	Cys	Arg	Ala	Ile	Val	Asp	Thr	Tyr	Phe
1				5					10					15

<210> 125

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 241-255

<400> 125

Val	Asp	Thr	Tyr	Phe	Ser	Leu	Ala	Ala	Cys	Val	Leu	Thr	Ala	Phe
1				5					10					15

<210> 126

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 251-265

<400> 126

Val	Leu	Thr	Ala	Phe	Ala	Phe	Ser	Ser	Leu	Val	Glu	His	Arg	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1

5

10

15

<210> 127
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 261-275

<400> 127
 Val Glu His Arg Gly Lys Leu Asn Met Val His Ile Gln Asn Ala
 1 5 10 15

<210> 128
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 271-285

<400> 128
 His Ile Gln Asn Ala Thr Leu Ala Gly Gly Val Ala Val Gly Thr
 1 5 10 15

<210> 129
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 281-295

<400> 129
 Val Ala Val Gly Thr Cys Ala Asp Met Ala Ile His Pro Phe Gly
 1 5 10 15

<210> 130
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 291-305

<400> 130
 Ile His Pro Phe Gly Ser Met Ile Ile Gly Ser Ile Ala Gly Met
 1 5 10 15

<210> 131
 <211> 15

<212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 301-315

<400> 131
 Ser Ile Ala Gly Met Val Ser Val Leu Gly Tyr Lys Phe Leu Thr
 1 5 10 15

<210> 132
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 311-325

<400> 132
 Tyr Lys Phe Leu Thr Pro Leu Phe Thr Thr Lys Leu Arg Ile His
 1 5 10 15

<210> 133
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 321-335

<400> 133
 Lys Leu Arg Ile His Asp Thr Cys Gly Val His Asn Leu His Gly
 1 5 10 15

<210> 134
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 331-345

<400> 134
 His Asn Leu His Gly Leu Pro Gly Val Val Gly Gly Leu Ala Gly
 1 5 10 15

<210> 135
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 341-355

<400> 135

Gly	Gly	Leu	Ala	Gly	Ile	Val	Ala	Val	Ala	Met	Gly	Ala	Ser	Asn
1				5						10				15

<210> 136

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 351-365

<400> 136

Met	Gly	Ala	Ser	Asn	Thr	Ser	Met	Ala	Met	Gln	Ala	Ala	Ala	Leu
1				5					10					15

<210> 137

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 361-375

<400> 137

Gln	Ala	Ala	Ala	Leu	Gly	Ser	Ser	Ile	Gly	Thr	Ala	Val	Val	Gly
1				5					10					15

<210> 138

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 371-385

<400> 138

Thr	Ala	Val	Val	Gly	Gly	Leu	Met	Thr	Gly	Leu	Ile	Leu	Lys	Leu
1				5					10					15

<210> 139

<211> 15

<212> PRT

<213> Rh50 GP

<220>

<223> Residue 381-395

<400> 139

Leu	Ile	Leu	Lys	Leu	Pro	Leu	Trp	Gly	Gln	Pro	Ser	Asp	Gln	Asn
1				5					10					15

<210> 140
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 391-405

<400> 140
 Pro Ser Asp Gln Asn Cys Tyr Asp Asp Ser Val Tyr Trp Lys Val
 1 5 10 15

<210> 141
 <211> 15
 <212> PRT
 <213> Rh50 GP

<220>
 <223> Residue 395-409

<400> 141
 Asn Cys Tyr Asp Asp Ser Val Tyr Trp Lys Val Pro Lys Thr Arg
 1 5 10 15

<210> 142
 <211> 16
 <212> PRT
 <213> BR

<400> 142
 Ser Lys Tyr Pro Asn Cys Ala Tyr Lys Thr Thr Gln Ala Asn Lys His
 1 5 10 15

<210> 143
 <211> 15
 <212> PRT
 <213> AV2

<400> 143
 Thr Ile Pro Glu Gln Ser Phe Gln Gly Ser Pro Ser Ala Asp Thr
 1 5 10 15

<210> 144
 <211> 15
 <212> PRT
 <213> AV4

<400> 144
 Thr Val Lys Ala Asp Phe Glu Phe Ser Ser Ala Pro Ala Pro Asp
 1 5 10 15

<400> 145

<210> 146

<400> 146

<210> 147

<400> 147

<210> 148

<220>

<400> 148

Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
20 25 30

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Ile Gly Leu Gly Phe
50 55 60

Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
85 90 95

Phe	Leu	Ser	Gln	Phe	Pro	Ser	Gly	Lys	Val	Val	Ile	Thr	Leu	Phe	Ser	100	105	110
Ile	Arg	Leu	Ala	Thr	Met	Ser	Ala	Met	Ser	Val	Leu	Ile	Ser	Ala	Gly	115	120	125
Ala	Val	Leu	Gly	Lys	Val	Asn	Leu	Ala	Gln	Leu	Val	Val	Met	Val	Leu	130	135	140
Val	Glu	Val	Thr	Ala	Leu	Gly	Thr	Leu	Arg	Met	Val	Ile	Ser	Asn	Ile	145	150	155
Phe	Asn	Thr	Asp	Tyr	His	Met	Asn	Leu	Arg	His	Phe	Tyr	Val	Phe	Ala	165	170	175
Ala	Tyr	Phe	Gly	Leu	Thr	Val	Ala	Trp	Cys	Leu	Pro	Lys	Pro	Leu	Pro	180	185	190
Lys	Gly	Thr	Glu	Asp	Asn	Asp	Gln	Arg	Ala	Thr	Ile	Pro	Ser	Leu	Ser	195	200	205
Ala	Met	Leu	Gly	Ala	Leu	Phe	Leu	Trp	Met	Phe	Trp	Pro	Ser	Val	Asn	210	215	220
Ser	Pro	Leu	Leu	Arg	Ser	Pro	Ile	Gln	Arg	Lys	Asn	Ala	Met	Phe	Asn	225	230	235
Thr	Tyr	Tyr	Ala	Leu	Ala	Val	Ser	Val	Val	Thr	Ala	Ile	Ser	Gly	Ser	245	250	255
Ser	Leu	Ala	His	Pro	Gln	Arg	Lys	Ile	Ser	Met	Thr	Tyr	Val	His	Ser	260	265	270
Ala	Val	Leu	Ala	Gly	Gly	Val	Ala	Val	Gly	Thr	Ser	Cys	His	Leu	Ile	275	280	285
Pro	Ser	Pro	Trp	Leu	Ala	Met	Val	Leu	Gly	Leu	Val	Ala	Gly	Leu	Ile	290	295	300
Ser	Ile	Gly	Gly	Ala	Lys	Cys	Leu	Pro	Val	Cys	Cys	Asn	Arg	Val	Leu	305	310	315
Gly	Ile	His	His	Ile	Ser	Val	Met	His	Ser	Ile	Phe	Ser	Leu	Leu	Gly	325	330	335
Leu	Leu	Gly	Glu	Ile	Thr	Tyr	Ile	Val	Leu	Leu	Val	Leu	His	Thr	Val	340	345	350
Trp	Asn	Gly	Asn	Gly	Met	Ile	Gly	Phe	Gln	Val	Leu	Leu	Ser	Ile	Gly	355	360	365
Glu	Leu	Ser	Leu	Ala	Ile	Val	Ile	Ala	Leu	Thr	Ser	Gly	Leu	Leu	Thr	370	375	380
Gly	Leu	Leu	Leu	Asn	Leu	Lys	Ile	Trp	Lys	Ala	Pro	His	Val	Ala	Lys	385	390	395

Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
 405 410 415

Phe

<210> 149

<211> 417

<212> PRT

<213> RhCe

<220>

<223> Residue 121-135

<400> 149

Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Cys
 1 5 10 15

Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
 20 25 30

His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
 35 40 45

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Ile Gly Leu Gly Phe
 50 55 60

Leu Thr Ser Ser Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn
 65 70 75 80

Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
 85 90 95

Phe Leu Ser Gln Phe Pro Ser Gly Lys Val Val Ile Thr Leu Phe Ser
 100 105 110

Ile Arg Leu Ala Thr Met Ser Ala Met Ser Val Leu Ile Ser Ala Gly
 115 120 125

Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
 130 135 140

Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val Ile Ser Asn Ile
 145 150 155 160

Phe Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
 165 170 175

Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro
 180 185 190

Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser Leu Ser
 195 200 205

Ala Met Leu Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn
 210 215 220

Ser Ala Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn Ala Met Phe Asn
 225 230 235 240
 Thr Tyr Tyr Ala Leu Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
 245 250 255
 Ser Leu Ala His Pro Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser
 260 265 270
 Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His Leu Ile
 275 280 285
 Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile
 290 295 300
 Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys Asn Arg Val Leu
 305 310 315 320
 Gly Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
 325 330 335
 Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu Leu Val Leu His Thr Val
 340 345 350
 Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
 355 360 365
 Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
 370 375 380
 Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Val Ala Lys
 385 390 395 400
 Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
 405 410 415

Phe

<210> 150
 <211> 417
 <212> PRT
 <213> RhcE

<220>
 <223> Residue 131-145

<400> 150
 Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Trp
 1 5 10 15
 Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
 20 25 30
 His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
 35 40 45

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Leu Gly Leu Gly Phe
 50 55 60
 Leu Thr Ser Asn Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn
 65 70 75 80
 Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
 85 90 95
 Phe Leu Ser Gln Phe Pro Pro Gly Lys Val Val Ile Thr Leu Phe Ser
 100 105 110
 Ile Arg Leu Ala Thr Met Ser Ala Met Ser Val Leu Ile Ser Ala Gly
 115 120 125
 Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
 130 135 140
 Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val Ile Ser Asn Ile
 145 150 155 160
 Phe Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
 165 170 175
 Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro
 180 185 190
 Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser Leu Ser
 195 200 205
 Ala Met Leu Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn
 210 215 220
 Ser Pro Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn Ala Met Phe Asn
 225 230 235 240
 Thr Tyr Tyr Ala Leu Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
 245 250 255
 Ser Leu Ala His Pro Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser
 260 265 270
 Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His Leu Ile
 275 280 285
 Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile
 290 295 300
 Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys Asn Arg Val Leu
 305 310 315 320
 Gly Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
 325 330 335
 Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu Leu Val Leu His Thr Val
 340 345 350

Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
 355 360 365

Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
 370 375 380

Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Val Ala Lys
 385 390 395 400

Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
 405 410 415

Phe

<210> 151
 <211> 417
 <212> PRT
 <213> RhD

<220>
 <223> Residue 141-155

<400> 151
 Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Trp
 1 5 10 15

Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
 20 25 30

His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
 35 40 45

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Ile Gly Leu Gly Phe
 50 55 60

Leu Thr Ser Ser Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn
 65 70 75 80

Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
 85 90 95

Phe Leu Ser Gln Phe Pro Ser Gly Lys Val Val Ile Thr Leu Phe Ser
 100 105 110

Ile Arg Leu Ala Thr Met Ser Ala Leu Ser Val Leu Ile Ser Val Asp
 115 120 125

Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
 130 135 140

Val Glu Val Thr Ala Leu Gly Asn Leu Arg Met Val Ile Ser Asn Ile
 145 150 155 160

Phe Asn Thr Asp Tyr His Met Asn Met Met His Ile Tyr Val Phe Ala
 165 170 175

Ala	Tyr	Phe	Gly	Leu	Ser	Val	Ala	Trp	Cys	Leu	Pro	Lys	Pro	Leu	Pro
			180					185					190		
Glu	Gly	Thr	Glu	Asp	Asn	Asp	Gln	Thr	Ala	Thr	Ile	Pro	Ser	Leu	Ser
		195					200					205			
Ala	Met	Leu	Gly	Ala	Leu	Phe	Leu	Trp	Ile	Phe	Trp	Pro	Ser	Phe	Asn
	210					215					220				
Ser	Ala	Leu	Leu	Arg	Ser	Pro	Ile	Glu	Arg	Lys	Asn	Ala	Val	Phe	Asn
225					230					235					240
Thr	Tyr	Tyr	Ala	Val	Ala	Val	Ser	Val	Val	Thr	Ala	Ile	Ser	Gly	Ser
				245					250					255	
Ser	Leu	Ala	His	Pro	Gln	Gly	Lys	Ile	Ser	Lys	Thr	Tyr	Val	His	Ser
			260					265					270		
Ala	Val	Leu	Ala	Gly	Gly	Val	Ala	Val	Gly	Thr	Ser	Cys	His	Leu	Ile
		275					280					285			
Pro	Ser	Pro	Trp	Leu	Ala	Met	Val	Leu	Gly	Leu	Val	Ala	Gly	Leu	Ile
	290					295					300				
Ser	Val	Gly	Gly	Ala	Lys	Tyr	Leu	Pro	Gly	Cys	Cys	Asn	Arg	Val	Leu
305					310					315					320
Gly	Ile	Pro	His	Ser	Ser	Ile	Met	Gly	Tyr	Asn	Phe	Ser	Leu	Leu	Gly
				325					330					335	
Leu	Leu	Gly	Glu	Ile	Ile	Tyr	Ile	Val	Leu	Leu	Val	Leu	Asp	Thr	Val
			340					345					350		
Gly	Ala	Gly	Asn	Gly	Met	Ile	Gly	Phe	Gln	Val	Leu	Leu	Ser	Ile	Gly
		355					360					365			
Glu	Leu	Ser	Leu	Ala	Ile	Val	Ile	Ala	Leu	Thr	Ser	Gly	Leu	Leu	Thr
	370					375					380				
Gly	Leu	Leu	Leu	Asn	Leu	Lys	Ile	Trp	Lys	Ala	Pro	His	Glu	Ala	Lys
385					390					395					400
Tyr	Phe	Asp	Asp	Gln	Val	Phe	Trp	Lys	Phe	Pro	His	Leu	Ala	Val	Gly
				405					410					415	

Phe

<210> 152
 <211> 417
 <212> PRT
 <213> Rhce

<220>
 <223> Residue 151-165

<400> 152

Met	Ser	Ser	Lys	Tyr	Pro	Arg	Ser	Val	Arg	Arg	Cys	Leu	Pro	Leu	Trp
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Ala	Leu	Thr	Leu	Glu	Ala	Ala	Leu	Ile	Leu	Leu	Phe	Tyr	Phe	Phe	Thr
			20					25					30		
His	Tyr	Asp	Ala	Ser	Leu	Glu	Asp	Gln	Lys	Gly	Leu	Val	Ala	Ser	Tyr
		35					40					45			
Gln	Val	Gly	Gln	Asp	Leu	Thr	Val	Met	Ala	Ala	Leu	Gly	Leu	Gly	Phe
	50					55					60				
Leu	Thr	Ser	Asn	Phe	Arg	Arg	His	Ser	Trp	Ser	Ser	Val	Ala	Phe	Asn
	65				70					75					80
Leu	Phe	Met	Leu	Ala	Leu	Gly	Val	Gln	Trp	Ala	Ile	Leu	Leu	Asp	Gly
				85					90					95	
Phe	Leu	Ser	Gln	Phe	Pro	Pro	Gly	Lys	Val	Val	Ile	Thr	Leu	Phe	Ser
			100					105					110		
Ile	Arg	Leu	Ala	Thr	Met	Ser	Ala	Met	Ser	Val	Leu	Ile	Ser	Ala	Gly
		115					120					125			
Ala	Val	Leu	Gly	Lys	Val	Asn	Leu	Ala	Gln	Leu	Val	Val	Met	Val	Leu
	130					135					140				
Val	Glu	Val	Thr	Ala	Leu	Gly	Thr	Leu	Arg	Met	Val	Ile	Ser	Asn	Ile
145					150					155					160
Phe	Asn	Thr	Asp	Tyr	His	Met	Asn	Leu	Arg	His	Phe	Tyr	Val	Phe	Ala
			165						170					175	
Ala	Tyr	Phe	Gly	Leu	Thr	Val	Ala	Trp	Cys	Leu	Pro	Lys	Pro	Leu	Pro
			180					185					190		
Lys	Gly	Thr	Glu	Asp	Asn	Asp	Gln	Arg	Ala	Thr	Ile	Pro	Ser	Leu	Ser
		195					200					205			
Ala	Met	Leu	Gly	Ala	Leu	Phe	Leu	Trp	Met	Phe	Trp	Pro	Ser	Val	Asn
	210					215					220				
Ser	Ala	Leu	Leu	Arg	Ser	Pro	Ile	Gln	Arg	Lys	Asn	Ala	Met	Phe	Asn
225					230					235					240
Thr	Tyr	Tyr	Ala	Leu	Ala	Val	Ser	Val	Val	Thr	Ala	Ile	Ser	Gly	Ser
			245						250					255	
Ser	Leu	Ala	His	Pro	Gln	Arg	Lys	Ile	Ser	Met	Thr	Tyr	Val	His	Ser
			260					265					270		
Ala	Val	Leu	Ala	Gly	Gly	Val	Ala	Val	Gly	Thr	Ser	Cys	His	Leu	Ile
		275					280					285			
Pro	Ser	Pro	Trp	Leu	Ala	Met	Val	Leu	Gly	Leu	Val	Ala	Gly	Leu	Ile
	290					295					300				

Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys Asn Arg Val Leu
 305 310 315 320

Gly Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
 325 330 335

Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu Leu Val Leu His Thr Val
 340 345 350

Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
 355 360 365

Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
 370 375 380

Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Val Ala Lys
 385 390 395 400

Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
 405 410 415

Phe